Original/Duplicate/Triplicate
CONTRACT CERTIFICATE

SBRN = 176/16-17

No. ***First & Final*** (For Other Works) Date...../...../2016 31/03/2017

Division: **BBMP, Byatarayanapura** Sub-Division: **BBMP, Byatarayanapura**

Bill Received No. 903 31-03-17 Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional Work Code: **006-15-000048**

Schedule Docket No. 31 Head of Account: P-3075 Est.Cost: **250.00 Lakhs** D.R.No. :

Name of Work (as per sanctioned estimate): **Improvements and Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No. 06, Byatarayanapura Sub division**

Name of Contractor and Full Address : *M/s Sathya Constructions, (Prop. Sathish) # 600, Down bazzar road, Yelahanka, Bangalore-64*

Reference to Agreement No. **BBMP/EE/BTP/WO/123/2016-17** Date: **06.09.2016**

Certified that the measurements were taken by me on 31/3/17 and recorded of Pages 35/901-43 of measurement Book No. 3520 and that the work is satisfactorily executed.

16.17.

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on 31/3/2017 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within	Total Rs: 2.27,33,865-00
2)	Deduct amount to be held in reserve being .....percent Rs.....	
3)	" Balance	
4)	Deduct Payment:	
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of	Amount ST- 454677-00 VAT- 909355-00 Cess- 227339-00 CBF- 22734-00 LR- 52404-00 Fine- 12500-00
	b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	
5)	Balance being unpaid value of work done held in reserve.	
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	
7)	Net amount due to or from Contractor unadjustments items.	Adj- 1.87,9009-00
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	Cheque: 2.08,54,856-00
	Total amount adjusted -	

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands) (For use in the Office)

Witness

1.

2.

Dated Signature of Contractor

Stamp

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

2.27,33,865-00
1.87,9009-00
2.08,54,856-00

Executive Engineer

Initials of Officer making payment

Sl. No.	Descriptions	Unit
1	KSRRB 300-1. **Earthwork excavation** by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of KPWD S.R 2015-16).**	Cum
2	**Providing granite slabs** of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 10cm thick**(Page No 25., I.No.5.31.2 of KPWD S.R 2015-16).**	Sqm
3	KSRB 4-1.2 : Providing and laying in **position plain cement concrete of mix1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.2 of KPWD S.R 2015-16).**	Cum
4	Providing and laying **Plain /reinforced cement concrete** for Box drain walls of thickness 10cm to 20cm including centring shuttering for work etc. complete as per approved drawing and design MORTH specification No.1500,1700,2200 **(Page No258., I.No.37.59.2 of KPWD S.R 2014-15).**	Cum
5	KSRB 4.9.2 : Providing **T .M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 **(Page No 17., I.No.4.46.2 of KPWD S.R 2014-15)**	Tonne
6	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate	Sqm
7	Providing precast slab of **250mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate	Sqm
8	KSRRB M300-14. **Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum** bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 **(Page No 142., I.No.19.14 of KPWD S.R 2015-16).**	Cum
9	KSRRB 300-58. **Compaction of original ground** with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 **(Page No 148., I.No.19.64 of KPWD S.R 2015-16).**	Cum
10	KSRRB M400-6.1. Construction of **granular sub-base** by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material **(Page No 154., I.No.20.4.2 of KPWD S.R 2015-16).**	Cum
11	KSRRB M600- Cement concrete Pavements KSRRB M600-1. **Construction of dry lean cement concrete mix CC 1:5:10** with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601**(Page No 170., I.No.22.1 of KPWD S.R 2014-15).**	Cum

evious Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
-	-	2391.92 401.70	150.00	358788.00 241020 -	2391.92 401.70	358788.00 241020	
-	-	402.00	600.00	241200.00	402.00	241200.00	
-	-	146.97	5000.00	734850.00	146.97	734850.00	
-	-	659.69 660.98	6000.00	3958140 - 3965880.00	659.69 660.98	3958140 - 3965880.00	
-	-	39.66	56000.00	2220960.00	39.66	2220960.00	
-	-	1440.50 1440.90	1650.00	2376825 - 2377485.00	1440.50 1440.90	2376825 - 2377485.00	
-	-	28.80	5100.00	146880.00	28.80	146880.00	
-	-	2560.95	140.00	358533.00	2560.95	358533.00	
-	-	8299.50	5.00	41498.00	8299.50	41498.00	
-	-	1406.93	1450.00	2040049.00	1406.93	2040049.00	
-	-	399.13	3700.00	1476781.00	399.13	1476781.00	

12	Cement concrete pavement.Construction of **un-reinforced plain cement concrete pavement**, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications.**M30** (at 360Kg per cum coarse aggregate @ 0.64cum and fine aggregate @	**Cum**
13	**Providing groove cutting** for Concrete pavement width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.**(Page No 172., I.No.22.8 of KPWD S.R 2014-15).**	**Mtr**
14	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **(Page No 157., I.No.20.18 of KPWD S.R 2015-16).**	**Cum**
15	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 **(Page No 160., I.No.21.6 of KPWD S.R 2015-16).**	**Sqm**
16	KSRRB 500-2. **Cleaning the existing black topped surface** with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5**(Page No 160., I.No.21.2 of KPWD S.R 2015-16).**	**Sqm**
17	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **(Page No 160., I.No.21.7 of KPWD S.R 2015-16).**	**Sqm**
18	KSRRB M500- 15. Providing, laying **dense graded bituminous macadam** using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507 **(Page No 161., I.No.21.17.6 of KPWD S.R 2015-16).**	**Cum**
19	KSRRB M500- 15. Providing, laying **bituminousConcrete** using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 **(Page No 164., I.No.21.22.6 of KPWD S.R 2015-16)**	**Cum**
20	KSRRB M800-13. Providing and laying of **hot applied thermoplastic compound** 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 **(Page No 181., I.No.24.15 of KPWD S.R 2015-16).**	**Cum**
	Gross Total	

CERTIFICATE

1. Certified that the above work done satisfactory and no materials issued from departmentally.

-	-	880.79	5800.00	**5108582.00**	880.79	**5108582.00**	
-	-	2339.90	130.00	**304187.00**	2339.90	**304187.00**	
-	-	670.01	1456.00	**975535.00**	670.01	**975535.00**	
-	-	2977.80	25.00	**74445.00**	2977.80	**74445.00**	
-	-	1675.50	3.00	**5027.00**	1675.50	**5027.00**	
-	-	4653.30	10.00	**46533.00**	4653.30	**46533.00**	
		161.46	5500.00	**888030.00**	161.46	**888030.00**	
		187.55	7000.00	**1312850.00**	187.55	**1312850.00**	
		153.22 155.00	420.00	64352- **65100.00**	153.22 155.00	64352- **65100.00**	
				22743193.00		**22743193.00**	

Rs:2.27,33865-6 Rs:2.27,33865-6

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24